

TVF 2027 Draft Program

Rotorcraft as a Service for Public Good

Long Beach, California | February 23–25, 2027 | Short course February 22

Revised October 9, 2026 • Draft for program development and speaker outreach

TVF 2027 combines three tracks: invited TVF and eVTOL content, a dedicated Rotorcraft Public Service Specialist Meeting, and focused hydrogen and certification workshops. The opening plenary brings all attendees together in the main ballroom. Thursday sessions end at 3:00 p.m.; all rooms must be completely cleared by 3:45 p.m., ahead of the mandatory 4:00 p.m. deadline.

Track	Room and program
TVF and eVTOL	Main ballroom: invited industry, UAS, autonomy, defense, government and NASA sessions, plus placeholders for additional speakers.
Rotorcraft Public Service	2nd room: 30 presentations of 30 minutes each, including Q&A and changeover, plus one 30-minute invited operator talk. Dedicated technical program after the opening plenary.
Hydrogen and certification	3rd room: Wednesday hydrogen program with a two-hour roundtable; Tuesday four-hour Sim4Cert workshop; Thursday two-hour G-35C committee meeting.
Shared plenary and closing	Tuesday 8:00–10:00 a.m. opening and Thursday 2:30–3:00 p.m. closing in the main ballroom; no parallel content.

Exhibits and room turnover

Day	Exhibit hours and logistics
Tuesday February 23	Open 10:00 a.m.–5:00 p.m. First exhibit visit is the 10:00–10:30 a.m. break following the plenary.
Wednesday February 24	Open 8:00 a.m.–5:00 p.m.; morning break, lunch and afternoon break provide focused networking periods.
Thursday February 25	Open 8:00 a.m.–1:30 p.m. Close after lunch; dismantling begins at 1:30 p.m. Exhibit area and all meeting rooms cleared by 3:45 p.m.

Exhibit operating hours are daytime hours; the overnight periods are closed. Arrange load-out routes and noise control so Thursday dismantling does not disrupt the 1:30–3:00 p.m. sessions. The venue requires all rooms cleared before 4:00 p.m. for the incoming group, whose setup begins at 6:00 p.m.

Participant status

Participants remain prospective unless stated otherwise. Mikael Cardinal of Unither Bioelectronique has a recorded hydrogen speaking and sponsorship commitment; topic and scope remain pending. BETA is invited for hydrogen participation. James Wang is the designated short-course instructor. Host sponsor keynote and other placeholders require speaker assignments.

Tuesday February 23

Opening plenary public service and certification

All times Pacific • Prospective speakers and presentation assignments subject to confirmation

Time	Main ballroom TVF and eVTOL	2nd room Public Service	3rd room Workshops
8:00–10:00	Opening plenary Welcome, public-good priorities and host sponsor keynote. Prospective: Chris Speights; Long Beach mayor or deputy mayor; Michael Jones; Steve Turnour; Christian Dommell; host sponsor TBD.	All attendees in main ballroom	All attendees in main ballroom
10:00–10:30	Morning break • Exhibits open	Morning break • Exhibits open	Morning break • Exhibits open
10:30–12:00	eVTOL and vertical flight outlook Invited aircraft development updates, vehicle configurations and market outlook. Placeholder for additional OEM speakers. Prospective: Wisk Aero; Archer Aviation; Joby.	Wildfire detection and monitoring P01–P03 3 × 30-minute presentations. Authors and titles TBD.	Sim4Cert Part 1 Modeling and simulation for certification; evidence and model credibility. Prospective: SAE G-35; EUROCAE WG-112 SG-4; government, industry and researchers.
12:00–1:30	Lunch and exhibits	Lunch and exhibits	Lunch and exhibits
1:30–3:00	Uncrewed and optionally piloted VTOL Aircraft systems, operational deployment and trust. Keep wildfire-specific applications in the public-service track. Prospective: Skyryse; Rotor Technologies; Robinson / Robinson Unmanned; Sikorsky Innovations; Near Earth Autonomy.	Wildfire suppression and operations P04–P06 3 × 30-minute presentations. Authors and titles TBD.	Sim4Cert Part 2 Validation, test correlation and certification evidence.
3:00–3:30	Afternoon break and exhibits	Afternoon break and exhibits	Afternoon break and exhibits
3:30–4:30	Industry leadership and deployment Placeholder: business models, fleet adoption, manufacturing and scaling. Avoid firefighting and certification deep dives during parallel sessions. Prospective: Industry and fleet leaders TBD.	Wildfire mission integration P07–P09 3 × 30-minute presentations, 3:30–5:00 p.m.	Sim4Cert Part 3 Workshop findings and recommendations. Total workshop teaching time: 4 hours.
4:30–5:00	Industry leadership and deployment continues Reserved invited speaker / audience discussion.	Wildfire mission integration continues P09: 4:30–5:00 p.m.	Reserved follow-up conversations No additional formal session assigned.

Wednesday February 24

Defense government and hydrogen

All times Pacific • Prospective speakers and presentation assignments subject to confirmation

Time	Main ballroom TVF and eVTOL	2nd room Public Service	3rd room Workshops
8:00–10:00	Army technical exchange UAS research, aerial mules, launched effects, configurations and technology gaps. Prospective: U.S. Army research and Maneuver Air representatives.	Search and rescue P10–P13 4 × 30-minute presentations. Authors and titles TBD.	Hydrogen symposium Part 1 Aircraft concepts and propulsion architectures. Mikael Cardinal / Unither: committed; details pending. BETA: invited. Prospective: Joby; Jesse Schneider / ZEV Station; H2-Aero.
10:00–10:30	Morning break and exhibits	Morning break and exhibits	Morning break and exhibits
10:30–12:00	Defense operator pilot and maintainer panel Readiness, sustainment, crew workload and operational experience. Prospective: U.S. Army; U.S. Navy; operator, pilot and maintainer representatives.	Disaster response and humanitarian assistance P14–P16 3 × 30-minute presentations. Authors and titles TBD.	Hydrogen symposium Part 2 Cryogenic storage, safety, infrastructure and certification. Prospective: NASA; Illinois; Washington State cryogenic laboratory; Boeing; Airbus ZEROe.
12:00–1:30	Lunch and exhibits	Lunch and exhibits	Lunch and exhibits
1:30–3:00	Government and UAS priorities Placeholder: defense research, UAS integration and future missions. Aircraft-level updates; hydrogen covered in the 3rd room. Prospective: Army; Navy; DARPA; other agency speakers TBD.	Public safety and emergency response P17–P19 3 × 30-minute presentations. Authors and titles TBD.	Hydrogen symposium Part 3 Deployment pathways and research priorities, 4:00–5:00 p.m. Prospective: H2-Aero and industry / agency contributors.
3:00–3:30	Afternoon break and exhibits	Afternoon break and exhibits	Afternoon break and exhibits
3:30–4:00	Noise and community acceptance NASA UAM noise recommendations, validation, human response and policy; invited discussion. Prospective: NASA UAM Noise Working Group / Langley; community and industry contributors TBD.	Medical logistics P20–P21 2 × 30-minute presentations, 3:30–4:30 p.m.	Hydrogen symposium Part 3 continues Full-day track: 6.5 hours, including the 2-hour roundtable.
4:00–4:30	Noise and community acceptance continues	Medical logistics continues P21: 4:00–4:30 p.m.	Hydrogen roundtable Part 1 Revisit the 2023 white paper; shared infrastructure, storage and deployment barriers. Industry, government and academia; moderator TBD.
4:30–5:00	Noise and community acceptance continues Discussion and recommendations.	Invited civil operator perspective CAL FIRE / LA-area fire agency representative, pilot or maintainer TBD.	Hydrogen roundtable Part 2 Recommendations and next steps. Total moderated roundtable time: 2 hours.

Thursday February 25

NASA autonomy and closing

All times Pacific • Prospective speakers and presentation assignments subject to confirmation

Time	Main ballroom TVF and eVTOL	2nd room Public Service	3rd room Workshops
8:00–10:00	NASA and federal research ACERO, sensing, flight testing and VTOL in space / Dragonfly. Prioritize research examples; standards business is in the 3rd room. Prospective: NASA Ames; Armstrong; JPL; Langley; FAA as appropriate.	Critical infrastructure inspection and support P22–P25 4 × 30-minute presentations. Authors and titles TBD.	G-35C committee meeting Two hours of committee business and standards coordination. Chair, agenda and access arrangements TBD.
10:00–10:30	Morning break and exhibits	Morning break and exhibits	Morning break and exhibits
10:30–12:00	Autonomy mission demonstrations Invited updates on firefighting, sensing, optionally piloted operations and mission integration. Placeholder for demonstrations / case studies. Prospective: Rain; Sikorsky Innovations; Near Earth Autonomy; Robinson / Robinson Unmanned; NASA ACERO as appropriate.	Medical delivery and humanitarian logistics P26–P28 3 × 30-minute presentations. Authors and titles TBD.	Reserved / no formal program Workshop follow-up appointments and early packing as needed.
12:00–1:30	Lunch and final exhibit visits	Lunch and final exhibit visits	Lunch and final exhibit visits
1:30–2:30	TVF and eVTOL invited session Placeholder: workforce, enabling technologies or a cross-industry outlook. Select topics distinct from public-service technical presentations. Prospective: Invited industry / academic speakers TBD.	Emerging public-benefit VTOL applications P29–P30 2 × 30-minute presentations. Authors and titles TBD.	No formal program Exhibits close at 1:30 p.m.; dismantling begins. Keep load-out separate from active sessions.
2:30–3:00	Shared closing discussion Track findings, workshop recommendations and next steps. Prospective: session chairs and VFS program leadership.	All attendees in main ballroom	All attendees in main ballroom
3:00–3:30	Afternoon break outside meeting rooms Departure and room clearance begin.	Afternoon break outside meeting rooms Departure and room clearance begin.	Afternoon break outside meeting rooms Departure and room clearance begin.
3:30–3:45	Room clearance and AV removal All rooms cleared by 3:45 p.m.	Room clearance and AV removal All rooms cleared by 3:45 p.m.	Room clearance and AV removal All rooms cleared by 3:45 p.m.

Monday February 22 Short Course

Crewed and Uncrewed eVTOL and UAS Design

Instructor James Wang | Main ballroom | 8:00 a.m.–6:30 p.m. Pacific

An eight-hour design course connecting crewed eVTOL aircraft with large, medium and smaller uncrewed VTOL systems. Coverage includes shared design principles, sizing, propulsion and configuration tradeoffs, and system integration. Counter-UAS receives a brief introduction. Proposed modules remain subject to instructor review.

Time	Proposed module
8:00–10:00	Mission requirements, configuration selection and sizing across crewed eVTOL and UAS
10:00–10:30	Morning break
10:30–12:00	Aerodynamics, performance and propulsion tradeoffs
12:00–1:30	Lunch
1:30–3:00	Large, medium and small VTOL UAS; similarities and differences from crewed designs
3:00–3:30	Afternoon break
3:30–5:00	System integration, flight controls and design examples
5:00–6:30	Design synthesis, brief counter-UAS introduction and discussion

Eight instructional hours plus a 90-minute lunch and two 30-minute breaks require a 10.5-hour day.

Presentation capacity and coordination

The specialist meeting reserves 15 hours for P01–P30: nine presentations Tuesday, twelve Wednesday and nine Thursday. Each 30-minute slot includes presentation, questions and changeover. Wednesday 4:30–5:00 p.m. is an additional invited operator talk. If more than 30 contributed presentations are accepted, convert the invited slot or revise the shared opening duration; additional capacity is not assumed in this draft.

Hydrogen occupies Wednesday in the 3rd room; the main track emphasizes Army, defense, government and community noise during that day. A separate main-track propulsion session is removed to avoid competing hydrogen content. Tuesday Sim4Cert runs opposite aircraft outlook, systems autonomy and industry business topics; detailed certification content belongs in the workshop. Public-service mission subjects rotate to avoid simultaneous main-track discussion of the same mission.

Finalize individual speakers and titles before confirming invitations. Check cross-track participation by NASA, Joby, BETA, Unither, Robinson and autonomy suppliers; reserve separate representatives when needed. Align workshop and committee agendas with SAE / EUROCAE leads. Retrieve the exact 2023 hydrogen white paper and verify Joseph Gallow’s name and affiliation before public listing. Confirm exhibit load-out, AV staffing and room-clearance responsibility with the venue. A prospective Robinson tour remains outside the three conference days.